## What is Claimed is:

5UB A:	$\rightarrow$ 1	\1. In a graphics system, a computer-implemented method of rendering a
	2	graphic primitive, the graphic primitive having a plurality of sides that define
	3	the edge of the primitive, the method comprising:
	4	determining a channel value for each of a plurality of vertices of the
	5	primitive
	6	selecting a point within the graphic primitive;
grafi	7	determining an interpolated channel value for each of two points, each
	8	point located on a side of the primitive; and
## ### ###	9	determining a channel value at the selected point by interpolation from
dini dini 1822 da	10	the interpolated values.
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er 4.18 4.19	11	2. The method of claim 1, wherein:
Ø H	12	the determining an interpolated channel value for each of two points step
	13	comprises performing linear interpolation using an interpolation engine to
	14	determine the interpolated channel values; and
	15	the determining a channel value step comprises performing linear
	16	interpolation using an interpolation engine to determine the channel value of
	17	the selected point within the graphic primitive.
	18	3. The method of claim 1, wherein:
	19	the determining an interpolated channel value for each of two points step
	20	comprises performing perspective interpolation using an interpolation engine to
	21	determine the interpolated channel values; and the

	22	the determining a channel value step comprises performing perspective
	23	interpolation using an interpolation engine to determine the channel value.
	24	
	25	4. The method of claim 1, further comprising:
	26	repeating each of the steps in claim 1 for a plurality of points in the
	27	primitive.
	28	5. The method of claim 1, wherein the channel value represents color.
4 <sub>11</sub> 11	29	6. The method of claim 1, wherein the channel value represents luminance.
יין אויין איין וויין איין אויין איין איי	30	7. The method of claim 1, wherein the channel value represents a texture
** *** . ***	31	coordinate.
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SUB AZ	33	8. An electronically-readable medium storing a program for permitting a
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	34	computer to perform a method comprising:
마. (건) 나는 나는 (건) (건) 아 (건) 나는 나는 '(그) (건)	35	determining a channel value for each of a plurality of vertices of the
	36	primitive;
	37	selecting a point within the graphic primitive;
	38	determining an interpolated channel value for each of two points, each
	39	point located on a side of the primitive; and
	40	determining a channel value at the selected point by interpolation from

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the interpolated values.

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43	9. A method of rendering a graphic primitive, the primitive including a
44	plurality of edges, the method comprising:
45	deriving a channel value of a first point on a first edge of the primitive;
46	deriving a channel value of a second point on a second edge of the
47	primitive; and
48	based upon the channel values of the first point and the second point,
49	determining a channel value for an interior point located within an interior
50	surrounded by the edges of the primitive.
51	
52	10. The method of claim 9 wherein the step of determining the channel value
53	of the first point comprises:
54	determining the channel values of end points of the first edge to
55	determine the channel value of the first point.
56	
57	11. The method of claim 9 wherein the step of determining the channel value
58	of the second point comprises:
59	determining the channel values of end points of the second edge to
60	determine the channel value of the second point.
61	

	63	using depth values of the first point and second point to determine a
18 A3	64	channel value for the interior point.
	65	
	<b>&gt;</b> 66	13. An electronically-readable medium storing a program for permitting a
	67	computer to perform a method comprising:
	68	deriving a channel value of a first point on a first edge of the primitive;
	69	deriving a channel value of a second point on a second edge of the
	70	primitive; and
	71	based upon the channel values of the first point and the second point,
io ii	72	determining a channel value for an interior point located within an interior
	73	surrounded by the edges of the primitive.
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	75	14. A system for rendering a graphic primitive, the graphic primitive
	76	including a plurality of vertices and edges, the system comprising:
	77	a plurality of agents configured to receive information related to the
	78	plurality of vertices and generate output signals;
	<i>79</i>	an arbiter coupled to the plurality of agents and configured to receive the
	80	output signals and to generate request signals;
	81	an interpolation engine configured to receive the request signals and
	82	generate an output ratio signal dependent on at least some of the output signals
	<b>83</b>	from the plurality of agents: and a

The method of claim 9 further comprising:

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	84	a router coupled to the interpolation engine and configured to transmit
	85	the output ratio signal to an input of at least one of the plurality of agents.
50B A4)	<b>≥</b> 86	15. A system for rendering a graphic primitive in a graphic system, the graphic
·	87	primitive having a plurality of sides, the system comprising:
	88	a channel value input device configured to determine a channel value for
	89	each of a plurality of vertices of the primitive;
	90	a point specifier, coupled to the channel value input device, configured to
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t confliction of the second of		
	92	an interpolation engine coupled to the point specifier and to the channel
	93	value input device, configured to determine an interpolated channel value for
	94	each of two points, each point located on a side of the primitive, and configured
	95	to determine a channel value at the selected point by interpolation from the
in in in	96	interpolated values.
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